PHOTOGRAPHIC INTERPRETATION REPORT

SHADRINSK ICBM COMPLEX
USSR

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SUMMARY/CONCLUSIONS

The Shadrinsk ICBM Complex consists of three Type IIIA launch sites (three-silo sites associated with the SS-7 missile system), a complex support facility, and a rail-to-road transfer point. The complex was among those in the first wave of ICBM deployment in the USSR. Construction for the complex began in [ ] and the third and last launch site was completed in [ ] 25X1D 25X1D
[ ] Although the complex has appeared active [ ] no signs of new 25X1D 25X1D
construction are observed on current photography. Deployment of a follow-on ICBM system apparently is precluded by the nature of the terrain. The present sites probably will be phased out during the early 1970s.

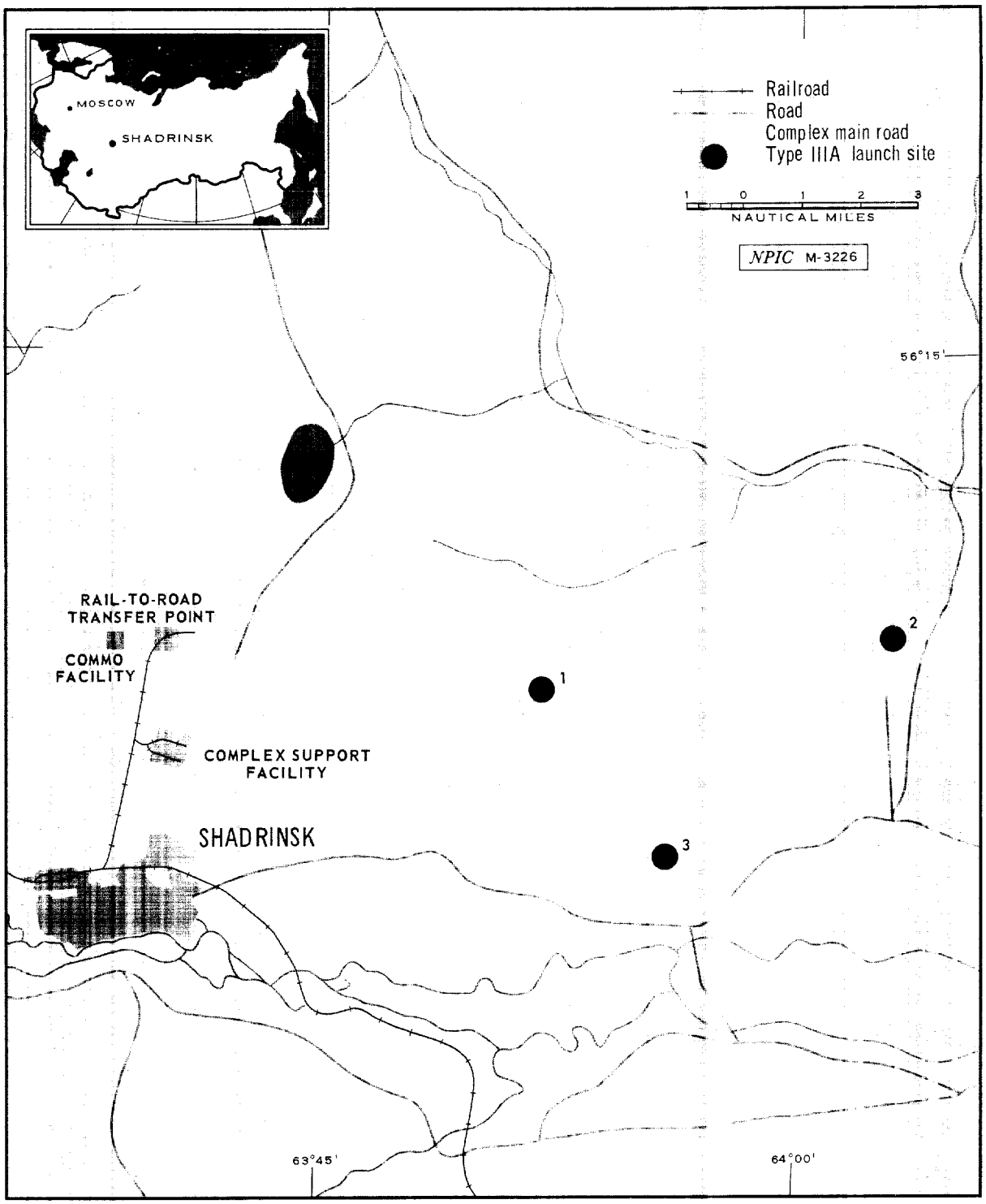

FIGURE 1. LOCATION OF SHADRINSK ICBM COMPLEX.

SHADRINSK ICBM COMPLEX

Component	Type		Geographic Coordinates
Complex Support Facility	--		56-08N 063-40E
Launch Site 1	IIIA		56-08N 063-50E
Launch Site 2	IIIA		56-09N 064-01E
Launch Site 3	IIIA		56-06N 063-56E

25X1D

The Shadrinsk ICBM Complex (Figure 1) is on the Trans-Siberian Railroad between Sverdlovsk and Kurgan in the Kurgan Oblast, Russian SFSR. The complex support facility is just beyond the northern outskirts of the city of Shadrinsk, an agricultural and milling center in Western Siberia, at the head of navigation of the Iset River. The complex extends 4 nautical miles (nm) north and about 14 nm east of the city and contains a complex support facility, a rail-to-road transfer point, and three Type IIIA (hardened) three-silo launch sites.

Terrain in the region is flat. The complex lies between the forks of the Iset and Ichkina Rivers and the immediate area of the complex is fairly well drained into both rivers. Further to the north and extending both east and west, the terrain contains numerous swamps and small bodies of open water. Elevations at the complex are over 400 feet and probably less than 430 feet. The launch sites are situated on high ground but relative relief at each site is negligible. The land is about 50 percent timber and most of the complex facilities are within the wooded areas. Agriculture is an important occupation and nearly all of the open land is under cultivation. Many small villages are along the banks of the two rivers and other small towns and villages are situated at intervals of about 5 nm to the north and west of the complex. Northeast of the complex the land is more swampy and towns and villages are less frequent.

The complex lies on the boundary between the Central Interior and Steppe Regions of Western Siberia. The climate consists of cold harsh winters and cool, wet summers. Ground snow cover usually lasts from early November to about mid-April and the mean monthly temperatures average below 0°F during December, January, and February. Daytime averages during the warmest months range around 70°F and the mean monthly rainfall is over 2 inches. Clouds are prevalent over the complex much of the year, ranging from a high of 85 percent in January and October to a low of about 55 percent in February, April, June, and July.

Supplies and materials are shipped into the complex support facility by rail. The Trans-Siberian Railroad passes through the city of Shadrinsk, and a spur from it serves both the complex support facility and the rail-to-road transfer point. Numerous roads intersect the region but they serve only to join the various towns and villages and are of no value for missile transport. Within the complex an all-weather road was constructed concurrently with the launch sites. This road was extended a short distance to the east beyond the turnoff for Launch Site 2, indicating that original plans for the complex probably called for additional sites to the east. However, when Launch Site 3 appeared it was south of the complex main road and about midway between Launch Sites 1 and 2.

This complex was among those in the first wave of ICBM deployment in the USSR. Construction for the complex support facility started in the spring 25X1D [redacted] The first photographic coverage of Shadrinsk 25X1D was in [redacted] when the complex support facility, rail-to-road transfer point, and two launch sites were present. Both launch sites were in an early stage of construction. The estimated start for Launch Site 1 is [redacted] and 25X1D 25X1D Launch Site 2 in [redacted] Launch Site 3, first observed [redacted] and 25X1D not present [redacted] has an estimated start date of [redacted] 25X1D 25X1D [redacted] all three sites were complete and no indications of additional deployment have since been observed. A communications facility has been constructed west of the rail-to-road transfer point.

The complex appears active, roads are always kept clear of snow, and vehicular traffic is often observed along the road and at the various facilities. The batch plant within the complex support facility was apparently put back in 25X1D production during the summer of [redacted] Precast concrete forms have been ob- 25X1D served since [redacted] stored east of the batching facilities. However, there are no signs of construction within the complex, and the batch plant facilities are probably being utilized to assist with construction projects elsewhere.

The future role of the complex in the Soviet plan of ICBM deployment is difficult to predict. It is improbable that one of the follow-on systems will be deployed here. Much of the surrounding terrain is swampy and contains numerous small bodies of open water. Such terrain would limit silo construction and prevent the widespread expansion necessary for hardened launchers. The present sites will probably remain active for several more years and then be phased out as more sophisticated missiles become available.

25X1D

REFERENCES

DOCUMENT

1. NPIC. TCS-80874/66, *Shadrinsk ICBM Complex, USSR,* Sep 66 (TOP SECRET RUFF)

REQUIREMENTS

CIA. C-DI5-82,972
CIA. C-DI7-84,251

NPIC PROJECT

11210/66 (partial answer)

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